

Form PTO-1449ion

Farrell G. Badger et al.

For:

EXPLOSIVE DEVICE WITH ACCELERATED  
BIOREMEDIATION CAPACITY

Divisional of:

Serial No.: 10/039,137  
 Of: Farrell G. Badger, et al.  
 Filing Date: December 31, 2001  
 Examiner: Peter A. Nelson  
 Art Unit: 3641

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date
JB A1	2,330,110	09/21/43	Buchan	166	21	10/31/41
A2	3,157,119	11/17/64	Porter	102	21.8	01/27/61
A3	3,710,718	01/16/73	Grant	102	23	02/04/71
A4	4,016,117	04/05/77	Griffin	260	17.4	11/25/74
A5	4,044,684	08/30/77	Gaggini et al.	102	90	07/13/76
A6	4,064,941	12/27/77	Smith	166	300	08/02/76
A7	4,108,728	08/22/78	Spinner et al.	195	127	07/28/76
A8	4,351,729	09/28/82	Witt	210	603	02/06/80
A9	4,365,557	12/28/82	Couture et al.	102	341	09/22/80
A10	4,826,601	05/02/89	Spratt et al.	210	610	08/01/86
A11	4,845,034	07/04/89	Menger et al.	435	167	01/06/86
A12	4,919,813	04/24/90	Weaver	210	603	08/25/89
A13	4,925,552	05/15/90	Bateson et al.	210	150	05/12/88
A14	4,929,552	05/29/90	Gold et al.	435	128	11/17/89
A15	4,961,381	10/09/90	McLaughlin	102	319	05/12/89
JB A16	4,968,427	11/06/90	Glanser et al.	210	610	05/01/89

continued . . .

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JB	A17	5,011,614	04/30/91	Gresser et al.	210	761	04/20/89
	A18	5,062,956	11/05/91	Lupton et al.	210	611	03/20/90
	A19	5,071,755	12/10/91	Nelson et al.	210	611	07/09/90
	A20	5,085,998	02/04/92	Lebron et al.	435	262	05/07/91
	A21	5,120,441	06/09/92	Jackson et al.	210	602	05/30/90
	A22	5,139,365	08/18/92	Chesner	405	129	09/04/90
	A23	5,139,776	08/18/92	Chazono et al.	424	92	02/03/89
	A24	5,296,146	03/22/94	Jackson et al.	210	602	06/08/92
	A25	5,302,285	04/12/94	Attaway et al.	210	605	09/20/93
	A26	5,314,821	05/24/94	Tyndall	435	252.1	02/01/93
	A27	5,370,845	12/06/94	Miller et al.	422	186.3	08/30/91
	A28	5,387,271	02/07/95	Crawford et al.	71	9	07/23/93
	A29	5,392,860	02/28/95	Ross	166	376	03/15/93
	A30	5,414,198	05/09/95	Broadman et al.	588	202	08/12/94
	A31	5,420,035	05/30/95	Tyndall	435	252.1	02/28/94
	A32	5,449,618	09/12/95	Tyndall et al.	435	262.5	12/16/93
JB	A33	5,455,173	10/03/95	Crawford et al.	435	264	04/18/94

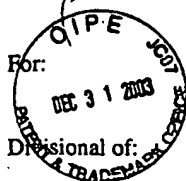
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JB	A34	5,478,743	12/26/95	Perkins et al.	435	262.5	03/11/94
	A35	5,484,730	01/16/96	Tyndall et al.	435	264	02/21/95
	A36	5,511,482	04/30/96	DiPietropolo	102	426	07/11/94
	A37	5,518,919	05/21/96	Tyndall	435	262.5	02/15/95
	A38	5,543,324	08/06/96	Rajan et al.	435	252.4	02/28/95
	A39	5,578,487	11/26/96	Tyndall	435	262.5	05/19/95
	A40	5,578,488	11/26/96	Tyndall et al.	435	262.5	11/26/96
I	A41	5,593,888	01/14/97	Glaze et al.	435	262.5	04/05/94
	A42	5,610,062	03/11/97	Tyndall	435	252.4	05/19/95
	A43	5,616,162	04/01/97	Crawford et al.	71	9	10/20/95
	A44	5,711,020	01/20/98	Wolfe et al.	588	203	04/16/96
	A45	5,736,669	04/07/98	Thomas et al.	102	293	06/04/96
	A46	5,763,736	06/09/98	Daume	588	203	04/10/97
	A47	5,763,815	06/09/98	Thomas et al.	102	293	06/04/96
↓	A48	5,814,514	09/29/98	Steffan et al.	435	262	07/10/96
JB	A49	5,849,984	12/15/98	Kim et al.	588	203	05/14/97

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*continued . . .*U.S. Patent Documents . . . continued

Examiner Initial*		Document Number	Issue Date	Name	Class	Sub Class	Filing Date
JB	A50	5,928,859	07/27/99	Nicklin et al.	435	4	02/02/88
	A51	6,051,420	04/18/00	Radtke et al.	435	262.5	05/20/98
	A52	6,066,772	05/23/00	Hater et al.	588	202	08/28/98
	A53	6,084,150	07/04/00	Crawford et al.	588	244	02/12/97
	A54	6,120,627	09/19/00	Badger et al.	149	108.8	10/18/96
	A55	6,121,506	09/19/00	Abel et al.	588	200	06/10/99
	A56	6,274,368	08/14/01	Nicklin et al.	435	252.1	12/23/98
	A57	6,334,395	01/01/02	Badger et al.	102	292	05/30/97
	A58	6,334,954	01/01/02	Crawford et al.	210	610	06/05/00
	A59	6,348,639	02/19/02	Crawford et al.	588	244	06/06/00
JB	A60	2002/0078849	06/27/02	Badger et al.	102	293	12/31/01

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Foreign Patent Documents

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JB	A61	251,320	01/07/88	Europe	C02F	3/34	N/A
	A62	512,660	11/11/92	Europe	A62D	3/00	Yes
	A63	3,818,398	12/14/89	Germany	A01B	79/00	Yes
	A64	4,141,940	12/23/93	Germany	F42D	5/04	Yes
	A65	1,396,372	06/04/75	Great Britain	C06B	31/00	N/A
	A66	8,602,985	06/16/88	Netherlands	B09B	3/00	Yes
	A67	WO 91/15440	10/17/91	PCT	C05F	11/08	N/A
	A68	WO 95/01311	01/12/95	PCT	C02F	3/34	Yes
	A69	WO 95/03259	02/02/95	PCT	C05F	11/08	N/A
JB	A70	2,039,251	07/09/95	Russia	E21C	37/00	Yes

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JB	A71	Berry, D.F., et al., <i>Microbial Metabolism of Homocyclic and Heterocyclic Aromatic Compounds Under Anaerobic Conditions</i> , 51(1) MICROBIOL. REV. 43-59 (Mar. 1987).
	A72	Boopathy, R., et al., <i>Biological Transformation of 2, 4, 6 - Trinitrotoluene (TNT) By Soil Bacteria Isolated from TNT - Contaminated Soil</i> , 47 BIORESOURCE TECHNOLOGY 19 (1994).
	A73	Boopathy, R., et al., <i>Biotransformation of 2, 4, 6 - Trinitrotoluene (TNT) By Co-Metabolism With Various Co-Substrates: A Laboratory-Scale Study</i> , 47 BIORESOURCE TECHNOLOGY 205 (1994).
	A74	Braun, Konstantin, et al., <i>Anaerobic Degradation of 2-Aminobenzoate (Anthranilic Acid) by Denitrifying Bacteria</i> , 48(1) APPL. ENVIRON. MICROBIOL. 102-107 (July 1984).
	A75	Cartwright, N.J. et al., <i>Bacterial Degradation of the Nitrobenzoic Acids</i> , 71 BIOCHEM. J. 248-261 (1959).
	A76	Channon, H.J., et al., <i>The Metabolism of 2:4:6-trinitrotoluene (a-T.N.T.)</i> , 38 BIOCHEM. J. 70-85 (1944).
	A77	Doyle, Richard C., et al., <i>Effect of Dairy Manure and Sewage Sludge on [14-C]-Pesiticide Degradation in Soil</i> , 26(4) J. AGRIC. FOOD CHEM. 987-989 (1978).
	A78	Federle, Thomas W., <i>Mineralization of Monosubstituted Aromatic Compounds in Unsaturated and Saturated Subsurface Soils</i> , 34 CAN. J. MICROBIOL. 1037-1042 (1988).
JB	A79	Fröslie, Arne, et al., <i>Ruminal Metabolism of DNOC and DNBP</i> , 11 ACTA VET. SCAND: 114-132 (1970).
	A80	Gorontzy, Thomas, et al., <i>Microbial Transformation of Nitroaromatic Compounds Under Anaerobic Conditions</i> , 139 J. GEN. MICROBIOL. 1331-1336 (1993).

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Form PTO 449ion



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JB	A81	Goszczynski, Stefan, et al., <i>Isotopically Labelled Compounds for Hazardous Waste Site Cleanup Investigations: Part I. Synthesis of [phenyl-U-.sup.14 C] labelled 2,4-dinitro-6-sec-butylphenol (dinoseb) and [phenyl-U-.sup.14 C] labelled 4-n-propylphenol</i> , 24(1) J. LABELLED COMPOUNDS AND RADIOPHARMACEUTICALS 35-42 (1991).
	A82	Gottschalk, Gerhard, BACTERIAL METABOLISM 157-162 (2d ed. 1986).
	A83	Heinis, F.S., et al., <i>Verwijdering van Bodemverontreiniging</i> , 39 PT/CIVIELE TECHNIEK 7-15 (1984).
	A84	Hallas, Laurence E., et al., <i>Microbial Transformation of Nitroaromatic Compounds in Sewage Effluent</i> , 45(4) APPL. ENVIRON MICROBIOL. 1234-1241 (Apr. 1983).
	A85	Jensen, H.L., et al., <i>Microorganisms that Decompose Nitro-Aromatic Compounds, With Special Reference to Dinitro-Ortho-Cresol</i> , 17 ACTA AGRICULTURAE SCANDINAVICA 115-126 (1967).
	A86	Kaake, Russell H. et al., <i>Bioremediation of Soils Contaminated with the Herbicide 2-sec-Butyl-4,6-Dinitrophenol (Dinoseb)</i> , 58(5) APPL. ENV. MICROBIOL. 1683-1689 (May 1992).
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JB	A90	Knezovich, John P., et al., <i>Chemical and Biological Systems for Regenerating Activated Carbon Contaminated with High Explosives</i> , paper submitted to PROCEEDINGS DEMIN '94 in Luxembourg, Luxembourg (November 14-16, 1994).
	A91	Knezovich, John P., et al., <i>Chemical and Biological Systems for Treating Waste Streams Contaminated with High Explosives</i> , paper submitted for JANNAF Safety and Environmental Protection Subcommittee Meeting in Tampa, Florida (December 5-8, 1995).
	A92	Kuhn, Elmar P., et al., <i>Anaerobic Degradation of Alkylated Benzenes in Denitrifying Laboratory Aquifer Columns</i> , 54(2) APPL. ENVIRON. MICROBIOL. 490-496 (Feb. 1988).
	A93	McBride, Kevin E., et al., <i>Metabolism of the herbicide bromoxynil by Klebsiella pneumoniae subsp. ozaenae</i> , 52(2) APPL. ENVIRON. MICROBIOL. 325-330 (Aug. 1986).
	A94	McCormick, Neil G., et al., <i>Microbial Transformation of 2,4,6-Trinitrotoluene and Other Nitroaromatic Compounds</i> , 31(6) APPL. ENVIRON. MICROBIOL. 949-958 (June 1976).
	A95	Naumova, R.P., et al., <i>Possibility of Deep Bacterial Destruction of 2,4,6-Trinitrotoluene</i> , 57 MIKROBIOLOGIYA 218-222 (1988).
	A96	Parris, George E., <i>Environmental and Metabolic Transformations of Primary Aromatic Amines and Related Compounds</i> , 76 RESIDUE REVIEWS 1-30 (1980).
	A97	Preuss, Andrea, et al., <i>Anaerobic transformation of 2,4,6-trinitrotoluene (TNT)</i> , 159 ARCH. MICROBIOL. 345-353 (1993).
JB	A98	Pumfrey, L., et al., <i>A Clostridium Species that Grows on 2,4,6-trinitrotoluene (TNT)</i> , in ABSTR. 93 <sup>rd</sup> GEN. MEET. AM. SOC. MICROBIOL. 421, Abs. No. Q-414 (1993).

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JB	A99	Rafii, Fatemah, et al., <i>Reduction of Nitroaromatic Compounds by Anaerobic Bacteria Isolated From the Human Gastrointestinal Tract</i> , 57 APPL. ENVIRON. MICROBIOL. 962-968 (1991).
	A100	Rafii, Fatemeh, et al., <i>Reduction of Azo Dyes and Nitroaromatic Compounds by the Same Extracellular Enzyme from Clostridium perfringens</i> , in ABSTR. 93 <sup>rd</sup> GEN. MEET. AM. SOC. MICROBIOL. 276 (1993).
	A101	Schink, Bernard, <i>Principles and Limits of Anaerobic Degradation: Environmental and Technological Aspects</i> , in BIOLOGY OF ANAEROBIC MICROORGANISMS 771-846 (Zinder ed. 1988).
	A102	Shieh, Chih-Shin, <i>Physical and Chemical Behavior of Stabilized Sewage Blocks in Seawater</i> , 23(1) ENVIRON. SCI. TECHNOL. 121-125 (1989).
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	A104	Simmons, Kathleen E., et al., <i>Oxidative Co-Oligomerization of Guaiacol and 4-Chloroaniline</i> , 23(1) ENVIRON. SCI. TECHNOL. 115-121 (1989).
	A105	Smolenski, Walter J., et al., <i>Biodegradation of Cresol Isomers in Anoxic Aquifers</i> , 53(4) APPL. ENVIRON. MICROBIOL. 710-716 (Apr. 1987).
	A106	Spain, Jim C., et al., <i>Enzymatic Oxidation of p-Nitrophenol</i> , 88(2) BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS 634-641 (1979).
JB	A107	Stevens, Todd O., <i>Biodegradation of Dinoseb (2-sec-Butyl-4,6-Dinitrophenol) and Bioremediation of Dinoseb-Contaminated Soils</i> (Nov. 1989).

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JB	A108	Stevens, Todd O., et al., <i>Biodegradation of Dinoseb (2-sec-Butyl-4,6-Dinitrophenol) in Several Idaho Soils with Various Dinoseb Exposure Histories</i> , 56(1) APPL. ENV. MICROBIO. 133-139 (Jan. 1990).
	A109	Stevens, Todd O., et al., <i>Selection and Isolation of Bacteria Capable of Degrading Dinoseb (2-sec-butyl-4,6-dinitrophenol)</i> , 2 BIODEGRADATION 1-13 (1991).
	A110	Tiedje, James M., et al., <i>The Ecology of an Anaerobic Dechlorinating Consortium</i> , in ENVIRONMENTAL BIOTECHNOLOGY 3-14 (Omenn ed. 1988).
	A111	Tratnyek, Paul G., <i>Abiotic Reduction of Nitro Aromatic Pesticides in Anaerobic Laboratory Systems Designed to Model Dissolved Organic Matter</i> (Aug. 1987).
	A112	Tratnyek, Paul G., et al., <i>Abiotic Reduction of Nitro Aromatic Pesticides in Anaerobic Laboratory Systems</i> , 37 J. AGRIC. FOOD CHEM. 248-254 (1989).
	A113	Tschech, Andeas, et al., <i>Methanogenic Degradation of Anthranilate (2-Aminobenzoate)</i> , 11 SYSTEM. APPL. MICROBIOL. 9-12 (1988).
	A114	Vlassak, K., et al., <i>Dinoseb as a Specific Inhibitor of Nitrogen Fixation in Soil</i> , 8 SOIL BIOL. BIOCHEM. 91-93 (1976).
	A115	Wallnöfer, P.R., et al., <i>Transformation of Dinitrophenol-Herbicides by Azotobacter Sp.</i> , 12 CHEMOSPHERE 967-972 (1978).
	A116	Yang, Yan-Xi, et al., <i>Bacteria Transforming 2,4,6-trinitrotoluene (<math>\alpha</math>-TNT) and Their Application</i> , in 92 CHEMICAL ABSTRACTS 375, Abs. No. 134719 (1980).
	A117	Zeyer, Josef, et al., <i>Degradation of o-Nitrophenol and m-Nitrophenol by a Pseudomonas putida</i> , 32(2) J. AGRIC. FOOD CHEM. 238-242 (1984).
JB	A118	Ziegler, K., et al., <i>Studies on the Anaerobic Degradation of Benzoic Acid and 2-Aminobenzoic Acid by a Denitrifying Pseudomonas Strain</i> , 149 ARCH. MICROBIOL. 62-69 (1987).

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JB A119 Ziegler, Klaus, et al., *Activation of Aromatic Acids and Aerobic 2-Aminobenzoate Metabolism in a Denitrifying Pseudomonas Strain*, 151 ARCH. MICROBIOL. 171-176 (1989).

**References Cited by Applicants**

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner: /James Bergin/ Date Considered: 10/13/2006

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.